

ABSTRACT

A fuel injection valve is provided that includes a valve seat member (3) having provided therein a conical valve seat (8) and a valve seat hole (7) communicating with the downstream end of the valve seat (8), a flat fuel diffusion chamber (43) radially extending from the valve seat hole (7), the fuel diffusion chamber (43) being formed between the valve seat member (3) and an injector plate (10), and a plurality of fuel injection holes (11) bored in the injector plate (10) so as to open in the fuel diffusion chamber (43), wherein the fuel injection holes (11) are arranged so as to be radially outwardly separated from the valve seat hole (7), and when the height of the fuel diffusion chamber (43) is t_1 and the length of the valve seat hole (7) is t_2 , $t_2/t_1 \geq 2$. It is thereby possible to atomize injected fuel effectively by logically setting the relationship between the length of the valve seat hole and the height of the fuel diffusion chamber, and the relative positional relationship between the valve seat hole and the fuel injection holes.